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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/689,469	10/12/2000	Anne Marie Schmidt	0575/55424-A-PCT-US/JPW/J 7726		
75	7590 06/30/2006		EXAMINER		
John P. White	John P. White			YAEN, CHRISTOPHER H	
Cooper & Dunl					
1185 Avenue of the Americas			ART UNIT	PAPER NUMBER	
New York, NY 10036			1643		
DATE MAILED: 06/30/2006		í			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/689,469	SCHMIDT ET AL.		
		Examiner	Art Unit		
	•	Christopher H. Yaen	1643		
	The MAILING DATE of this communication app	1			
Period fo	or Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1)🖂	Responsive to communication(s) filed on <u>07 A</u>	pril 2006.			
2a)⊠	This action is FINAL . 2b) This action is non-final.				
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims				
 4) Claim(s) 57-60 and 76-78 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 57-60 and 76-78 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
10)	The specification is objected to by the Examine. The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the Ex	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	nder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment	(s) e of References Cited (PTO-892)	4) 🗔 Interview Surrence	DTO 443)		
2) Notice 3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	4) L Interview Summary (Paper No(s)/Mail Da' 5) Notice of Informal Pa 6) Other:			

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DETAILED ACTION

Re: SCHMIDT ET AL

1. The amendment filed 4/7/2006 is acknowledged and entered into the record.

2. Claims 57-60 and 76-78 are pending and examined on the merits.

3. The text of those sections of Title 35, U.S. Code not included in this action can

be found in a prior Office action.

Claim Rejections Maintained - 35 USC § 103

4. The rejection of claims 57-60 and 76-78 under 35 USC § 103(a) as being

obvious over Hori et al (J. Biol. Chem. 1995; 270(43):25752-25761) in view of Miki et al

(Biochem. Bophys. Res. Commun. 1993;196(2):984-989) and Parkkinen et al (J. Bio.

Chem. 1993; 268(26):19726-19738) is maintained for the reasons of record. Applicant

argues that the claims of the instant invention are not obvious over the prior art because

the instant invention provides a surprising discovery. Specifically, applicant argues that

one of skill in the art would not have reasonably expect that inhibiting RAGE-amphoterin

interactions would inhibit tumor invasion and therefore a method of screening for agents

as claimed would not be obvious. Applicant sets forth a theory that one of skill in the art

would expect that the interaction between RAGE and amphoterin would not necessarily

result in the cellular effects observed from blocking or inhibiting the interaction between

RAGE and amphoterin due to the collateral or compensatory pathway that exists for

many cellular functions. Applicant supports this theory by submitting a paper by Walker

et al (Proc. Natl. Acad. Sci. 1998; 9:1568-1573) which teaches the general

unpredictability associated with interpreting the effects of particular cellular pathways and further indicate that in the absence of certain protein targets, a compensatory pathway may be used. Applicant's arguments have been carefully considered but are not deemed persuasive to overcome the rejection of record.

The rationale to modify or combine the prior art does not have to be expressly stated in the prior art; the rationale may be expressly or impliedly contained in the prior art or it may be reasoned from knowledge generally available to one of ordinary skill in the art, established scientific principles, or legal precedent established by prior case law. In re Fine, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988); In re Jones, 958 F.2d 347,21 USPQ2d 1941 (Fed. Cir. 1992). See also In re Kotzab, 217 F.3d 1365, 1370, 55 USPQ2d 1313, 1317 (Fed. Cir. 2000) (setting forth test for implicit teachings); In re Eli Lilly & Co., 902 F.2d 943, 14 USPQ2d 1741 (Fed. Cir. 1990) (discussion of reliance on legal precedent); In re Nilssen, 851 F.2d 1401, 1403, 7 USPQ2d 1500, 1502 (Fed. Cir. 1988) (references do not have to explicitly suggest combining teachings); Ex parte Clapp, 227 USPQ 972 (Bd. Pat. App. & Inter. 1985). In the instant case, the rationale to combine the prior art comes from knowledge generally available in the prior art with regard to the interaction between RAGE and amphoterin and the role and localization of amphoterin in cancer cells (see Parkkinen et al). Moreover, Hori et al has already provided those of skill in the art with the general methodology of screening cells which express RAGE and its interaction with amphoterin albeit in a different cell type. Applicant arguments concerning collateral or compensatory pathways, although appreciated for its general theory, has not been directly linked or associated with RAGE

and or amphoterin. There is no evidence that in the absence of the RAGE-amphoterin interaction, the receptor - ligand pair undergoes a collateral or compensatory pathway to compensate for the absence of either one of the pair as provided by Walker *et al*.

Applicant has yet to provided any objective evidence that the claimed method is in fact unexpected or surprising because the prior art has already established RAGE and amphoterin are associated (see Hori *et al*) and that amphoterin is localized in the leading edge of tumor cells (see Parkkinen *et al*). The fact that there *may* be a collateral or compensatory pathway has not been established for the instant receptor-ligand pair is only an unsubstantiated theory at best.

Therefore, the rejection of claims under 35 USC 103(a) as being obvious is maintained for the reasons of record.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher H. Yaen whose telephone number is 571-272-0838. The examiner can normally be reached on Monday-Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms, Ph.D. can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Christopher Yaen Art Unit 1643 June 22, 2006 PHRISTOPHERYAL PATENT EXAMINER